

**METHOD FOR IDENTIFYING PROTEASES, PROTEASE TARGET SITES AND
REGULATORS OF PROTEASE ACTIVITY IN CELLS**

Abstract of the Disclosure

5 The invention provides a fusion protein including a reporter polypeptide linked to a
linker polypeptide comprising a protease cleavage site, and a repressor polypeptide that represses
the activity of the reporter polypeptide. The repressor polypeptide is operatively linked to the
linker polypeptide. Cleavage of the linker polypeptide at the protease cleavage site increases the
activity of said reporter. A method is also provided for identifying a protease that recognizes a
specific protease cleavage site. The invention further provides a method of identifying a
10 compound that activities a protease.

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